

Fig. 1

Fig. 2: Syndecan-1 (rat) extracellular domain: M81785

atgagac gtgcggcgct

ctggcttttg ctctgcgcgc tggcgctgcg cctgcagcct gccctcccgc aaattgtcac  
cgcaaatgtg cctcctgaag accaagatgg ctctggggac gactcagaca acttctctgg  
ctcaggcaca ggtgctttgc cagatatgac tttgtcacgg cagacacctt ccacttggaa  
ggatgtgtgg ctcttgacag ctacaccac agctccagaa cccaccagca gggataccga  
ggccaccctc acctctatcc tgccggctgg agagaagcct gaggagggag agcccggtggc  
ccacgtggaa gcagagcctg acttcactgc tcgggacaag gagaaggagg ccaccaccag  
gcctagggag accacacagc tcccagtcac ccaacaggcc tcaacagcag ccagagccac  
cacggcccag gcatctgtca cgtctcatcc ccacggggat gtgcaacctg gcctccacga  
gaccttggct cccacagcac cggccaacc tgaccatcag cctccaagtg tggaggatgg  
aggcacttct gtcatcaaag aggttgtgga ggatgaaact accaatcagc ttcctgcagg  
agagggctct ggagaacaag acttcacctt tgaaacatct ggggagaaca cagctgtggc  
tggcgctcag cctgaccttc ggaatcagtc ccagtggtat gaaggagcca caggtgcttc  
tcagggcctt ttggacagga aggaa

ACCESSION M81785  
LOCUS RATSYNDECA 2396 bp mRNA ROD 16-JUL-1992  
DEFINITION Rattus norvegicus syndecan mRNA, complete cds.  
ACCESSION M81785  
NID g207140  
KEYWORDS syndecan.  
SOURCE Rattus norvegicus Epididymal fat pad cDNA to mRNA.  
ORGANISM Rattus norvegicus  
Eukaryotae; mitochondrial eukaryotes; Metazoa; Chordata;  
Vertebrata; Eutheria; Rodentia; Sciurognathi; Myomorpha; Muridae;  
Murinae; Rattus.  
REFERENCE 1 (bases 1 to 2396)  
AUTHORS Kojima,T., Shworak,N.W. and Rosenberg,R.D.  
TITLE Molecular cloning and expression of two distinct cDNA-encoding  
heparan sulfate proteoglycan core proteins from a rat endothelial  
cell line  
JOURNAL J. Biol. Chem. 267, 4870-4877 (1992)

09445916.092069

Fig. 3: Syndecan-2 (human) extracellular domain (J 04621):

ggcaggagggg agggagccag aggaaaagaa gaggaggaga aggaggagga cccggggagg  
gaggcgcggc gcgggaggag gaggggcgca gccgcggagc cagtggcccc gcttggacgc  
gctgctctcc agataccccc ggagctccag ccgcgcggat cgcgcgctcc cgccgctctg  
cccctaaact tctgccgtag ctccctttca agccagcgaa tttattcctt aaaaccagaa  
actgaacctc ggcacgggaa aggagtcgcg ggaggagcaa aaccacagca gagcaagaag  
agcttcagag agcagccttc ccggagcacc aactccgtgt cgggagtgcg gaaaccaaca  
agtgaagagg cgccgcgttc ccggggcgca gctgcggggc gcgggagcag gcgcaggagg  
aggaagcgag cgcccccgag ccccgagccc gagtccccga gcctgagccg caatcgctgc  
ggtactctgc tccggattcg tgtgcgcggg ctgcgccgagc gctgggcagg aggcttcggt  
ttgccctggt tgcaagcagc ggctggggagc agccggtccc tggggaatat gcggcgcgcg  
tggtacctgc tcaccttggg cttggtggcc tgcgtgtcgg cggagtcgag agcagagctg  
acatctgata aagacatgta ccttgacaac agctccattg aagaagcttc aggagtgtat  
cctattgatg acgatgacta cgcttctcgg tctggctcgg gagctgatga ggatgtagag  
agtccagagc tgacaacaac tcgaccactt ccaaagatac tgttgactag tgctgctcca  
aaagtggaaa ccacgacgct gaatatacag aacaagatac ctgctcagac aaagtcacct  
gaagaaactg ataaagagaa agttcacctc tctgactcag aaaggaaaat ggaccagcc  
gaagaggata caaatgtgta tactgagaaa cactcagaca gtctgtttaa acggacagaa

protein sequence:

GRREGARGKEEEEKEEDPGREARRRRRGAAAEFVAPLGRAALQ  
IPPELQPRGSRAPAALPLNFCRSSLSSQRIYSLKPETEPRHGKGVGGAKPQQSKKSF  
REQPSRSTNSVSGVQKPTSERAPRSRGAAAGGSRRRRRKRAPPSPESP SLSRNC  
GTLRLIRVRGLAERWAGGFVLPWLQAAAGSSRSLGNMRRRAWILLTLGLVACVSAESRA  
ELTSDKDMYLDNSSIEEASGVYPIDDDYASASGSGADEDVESPELTTRPLPKILLT  
SAAPKVETTLNLIQNKIPAQTKSPEETDKEKVHLSDSERKMDPAEEDTNVYTEKHSDS  
LFKRTE

reference:

ACCESSION J04621  
LOCUS HUMHSPGC 3414 bp mRNA PRI 08-NOV-1994  
DEFINITION Human heparan sulfate proteoglycan (HSPG) core protein, 3' end.  
ACCESSION J04621  
NID g184428  
KEYWORDS core protein; heparan sulfate proteoglycan.  
SOURCE Human fetal lung fibroblast, cDNA to mRNA, clone 48K5.  
ORGANISM Homo sapiens  
Eukaryotae; mitochondrial eukaryotes; Metazoa; Chordata;  
Vertebrata; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
REFERENCE 1 (bases 1 to 3414)  
AUTHORS Marynen, P., Zhang, J., Cassiman, J.J., Van den Berghe, H. and David, G.  
TITLE Partial primary structure of the 48- and 90-kilodalton core  
proteins of cell surface-associated heparan sulfate proteoglycans  
of lung fibroblasts. Prediction of an integral membrane domain and  
evidence for multiple distinct core proteins at the cell surface of  
human lung fibroblasts  
JOURNAL J. Biol. Chem. 264 (12), 7017-7024 (1989)

0544546-090298

**Fig. 4: Synd-3 (N-Syndecan) extracellular domain**

gccccgcgcgctgctgagccgtccttgccggcacgssgatgccccgcggagctgcggcgcc  
tcgcggtgctgctgctgctgctcagcgcgccgcagcgtgggtcagccgtggcgcaatg  
agaactacgagaggccggtggacctggagggtcttggggatgatgatccctttggggacg  
atgaactggatgacatctactcgggctccggctcaggctattttgagcaggagtcagggt  
tgagacagcgggtcagcctcaccacggacacgctccgtcccactgcccaccacgggtggccg  
tgctgcctgtcaccttggtgcagcccatggcaacaccctttgagctggtccccacagagg  
acaggtcccctgagcaaaacaaccacgctcttgtatatccccaagataacagaagcaccag  
tgatccccagctggaaaacaaccacgcccagttaccactgccagtgaactccccagtagca  
cctccaccaccaccaccacgggtgctaccaccaccacaaccaccaccaccatcagcacca  
ctgtggccacctccaagcccaccactaccagagggttccctgccccctttgtcaccaagg  
cagccaccacccgggcccaccaccctggagacgcccaccacctccatccctgaaaccagtg  
tcctgacagagggtgaccacatcacggcttgctcccctccagcacagccaagccgaggtccc  
tgccaaaaccaagcacttccaggactgcagaaccacggaaaaaagcactgccttgctt  
ccagccccaccacgctgccaccacagaagccccccagggtggagccaggggagttgacga  
cagtcctcgacagtgaacctggaagtcccaaccagtagtggtcccccagcggggacttcgaga  
tcaggaggaggaggagacaactcgtcctgagctgggcaatgaggtggtggcagtggtga  
caccaccagcagcaccgggggtgggcaagaatgcagagccgggggtcatcgacaacacaa  
tagagtccgggcagctcgggtgctcagctccccagaaaaacatcctggagaggaaggaa

**Reference:**

ACCESSION M84910  
LOCUS CHKSNDCPRO 1372 bp mRNA VRT 29-NOV-1995  
DEFINITION Chicken syndecan-3 proteoglycan mRNA, complete cds.  
ACCESSION M84910  
NID g1017461  
KEYWORDS syndecan-3 proteoglycan.  
SOURCE Gallus gallus 4-6 day and 10 day forelimb and whole embryo cDNA to mRNA.  
ORGANISM Gallus gallus  
Eukaryotae; mitochondrial eukaryotes; Metazoa; Chordata;  
Vertebrata; Archosauria; Aves; Neognathae; Galliformes;  
Phasianidae; Phasianinae; Gallus.  
REFERENCE 1 (bases 1 to 1372)  
AUTHORS Gould,S.E., Upholt,W.B. and Kosher,R.A.  
TITLE Syndecan 3: a member of the syndecan family of  
membrane-intercalated proteoglycans that is expressed in high  
amounts at the onset of chicken limb cartilage differentiation  
JOURNAL Proc. Natl. Acad. Sci. U.S.A. 89 (8), 3271-3275 (1992)  
MEDLINE 92228766  
REFERENCE 2 (bases 1 to 1372)  
AUTHORS Gould,S.E., Upholt,W.B. and Kosher,R.A.  
TITLE Characterization of chicken syndecan-3 as a heparan sulfate  
proteoglycan and its expression during embryogenesis  
JOURNAL Dev. Biol. 168 (2), 438-451 (1995)

Fig. 5: Syndecan extra-cellular domain from rat: M81786

atggc gcctgtctgc ctgtttgcgc cgctgctgct gttgctcctc  
ggaggtttcc ccgtcgcccc aggcgagtcg attcgagaga ctgaggtcat agacccccag  
gacctcctgg aaggcagata cttctctgga gccctcccg acgatgaaga cgctgggggc  
cttgagcagg actctgactt tgagctgtcg gggtccggag atctagatga cacggaggag  
cccaggacct tccctgaggt gatttcaccc ttggtgccac tagataacca catccccgag  
aatgccagc ctggcatccg tgtcccctca gagcccaagg aactggaaga gaatgaggtc  
attcccaaaa ggggtcccctc cgacgtgggg gatgacgatg tgtccaacaa agtgtccatg  
tccagcactt cccagggcag caacattttt gaaagaactg ag

Reference:

ACCESSION M81786  
LOCUS RATTRYUDOCA 2452 bp mRNA ROD 16-JUL-1992  
DEFINITION Rattus norvegicus ryudocan mRNA, complete cds.  
ACCESSION M81786  
NID g206822  
KEYWORDS ryudocan.  
SOURCE Rattus norvegicus Epididymal fat pad cDNA to mRNA.  
ORGANISM Rattus norvegicus  
Eukaryotae; mitochondrial eukaryotes; Metazoa; Chordata;  
Vertebrata; Eutheria; Rodentia; Sciurognathi; Myomorpha; Muridae;  
Murinae; Rattus.  
REFERENCE 1 (bases 1 to 2452)  
AUTHORS Kojima,T., Shworak,N.W. and Rosenberg,R.D.  
TITLE Molecular cloning and expression of two distinct cDNA-encoding  
heparan sulfate proteoglycan core proteins from a rat endothelial  
cell line  
JOURNAL J. Biol. Chem. 267, 4870-4877 (1992)

03445916-090909

Fig. 6: Glypican-1 (rat) extracellular Domain:

atggag

```
ctccggggccc gaggctggtg gctgctgtgc gcggccgccg cgctagtgcg ctgcgccgcg
ggggacccccg ccagcaagag ccggagctgc agcgaagtcc gccagatcta cggggctaag
ggctttagcc tgagcgacgt gccccaggca gagatctcgg gagagcacct gcggatctgc
ccccagggct acacctgctg caccagttag atggaggaga acctggccaa ccacagccgg
atggagctgg agaccgcact ccacgacagc agccgtgccc tgcaggctac actggccacc
cagctgcatg gcatcgatga ccacttcag cgctgtctga atgactcgga gcgtacactg
caggatgctt tccccggggc ctttggggac ctgtacacgc agaacactcg ggccttcogg
gacctgtatg ctgagctgcg tctctactac cgaggggcca acctacacct tgaggagaca
ctggccgagt tctgggcacg gctgctggag cgtctcttca agcagctgca cccccagctt
ctgctgcccg atgactatct ggactgcctg ggcaagcagg cagaggcact gcggccgttt
ggggatgccc ctcgagaact gcgcctgagg gccacccgtg cttttgtggc ggcacgatcc
tttgtgcagg gcctgggtgt ggccagttag gtagtccgaa aggtggccca ggttcctctg
gccccagaat gttctcgggc tgtcatgaag ttggtctact gtgcccattg ccggggagtc
cctggtgccc ggccctgtcc cgactattgc cgaaatgtgc tcaaaggctg ccttgccaac
caggccgacc tggatgccga gtggagggaac ctctggact ccattggtgct catcactgac
aagttctggg gccogtcggg tgcggagaat gtcattggca gtgtgcata gtggctggcg
gaggccatca acgccctcca ggacaacaag gacacactca cagctaaggt catccagggc
tgcggaaacc ccaaggtcaa tccccatggc tctgggcctg aggagaagcg tcgccgtggc
aaactggcac tgcaggagaa gtcctccaca ggtactctgg aaaagctggg ctctgaggcc
aaggcccagc tccgagacat tcaggactac tggatcagcc tcccaggga actgtgtagt
gagaagatgg ccattgagtcc tgccagcgat gaccgctgct ggaatgggat ttccaagggc
cggtagctac ctgaggtgat gggtagtggg ctggccaacc agatcaacaa ccctgaagtg
gaggtggaca tcaccaagcc ggatatgacc atccggcagc agatcatgca gctcaagatc
atgaccaacc gtttacgtgg cgcctacggt ggcaatgatg tggacttcca ggatgccagt
gatgacggca gtggctccgg cagcgggtggc ggatgcccag atgacgcctg tggccggagg
gtcagcaaga agagctccag ctcccgacc cccttgacct atgccctccc cggcttgtca
gaacaggagg gacagaagac ctcg
```

Protein sequence:

```
MELRARGWLLCAAALVACARGDPASKRSRSCSEVRQIYGAKGF
SLSDVPQAEISGEHLRICPGYTCCTSEMEENLANHSRMELETALHDSSRALQATLAT
QLHGIDDDHFQRLNDSERTLQDAFFGAFGLDLYTQNTAFRDLYAELRLYYRGANLHLE
ETLAEFWARLLERLFKQLHPQLLLPDDYLDCLGKQAEALRPFGDAPRELRLRATRAV
AARSFVQGLGVASDVVRKVAQVPLAPECRAVMKLVYCAHCRGVPGARPCPDYCRNVL
KGCLANQADLDAEWRNLDSMVLITDKFWGPGSAENVIGSVHMLAEAINALQDNKDT
LTAKVIQCGGNPKVNPFGSGPEEKRRRGLALQEKSTGTLEKLVSEAKAQLRDIQDY
WISLPGTLCSEKMAMSPASDDRCWNGISKGRYLPEVMGDGLANQINNPEVEVDITKPD
MTIRQQIMQLKIMTNRLRGAYGGNDVDFQDASDDGSGSGGGGCPDDACGRRVSKKSS
SSRTPALTHALPGLSEQEGQKTS
```

Reference:

ACCESSION L34067  
NID g506416  
KEYWORDS glypican.  
SOURCE Rattus norvegicus (strain New England Deconess Hospital) cDNA to mRNA.  
ORGANISM Rattus norvegicus  
Eukaryotae; mitochondrial eukaryotes; Metazoa; Chordata;  
Vertebrata; Eutheria; Rodentia; Sciurognathi; Myomorpha; Muridae;  
Murinae; Rattus.  
REFERENCE 1 (bases 1 to 1737)  
AUTHORS Litwack, E.D., Stipp, C.S., Kumbasar, A. and Lander, A.D.  
TITLE Neuronal expression of glypican, a cell-surface  
glycosylphosphatidylinositol-anchored heparan sulfate proteoglycan,  
in the adult rat nervous system  
JOURNAL J. Neurosci. 14, 3713-3724 (1994)

09145916.090209

Fig.7 : Syndecan-1 (rat) transmembrane domain: M81785

gtgct gggaggtgtc attgctggag gcctggtggg  
cctcatcttt gctgtgtgcc tgggtggcttt catgctatac

Reference:

ACCESSION M81785  
LOCUS RATSYNDECA 2396 bp mRNA ROD 16-JUL-1992  
DEFINITION Rattus norvegicus syndecan mRNA, complete cds.  
ACCESSION M81785  
NID g207140  
KEYWORDS syndecan.  
SOURCE Rattus norvegicus Epididymal fat pad cDNA to mRNA.  
ORGANISM Rattus norvegicus  
Eukaryotae; mitochondrial eukaryotes; Metazoa; Chordata;  
Vertebrata; Eutheria; Rodentia; Sciurognathi; Myomorpha; Muridae;  
Murinae; Rattus.  
REFERENCE 1 (bases 1 to 2396)  
AUTHORS Kojima,T., Shworak,N.W. and Rosenberg,R.D.  
TITLE Molecular cloning and expression of two distinct cDNA-encoding  
heparan sulfate proteoglycan core proteins from a rat endothelial  
cell line  
JOURNAL J. Biol. Chem. 267, 4870-4877 (1992)

09145916.090296

Fig. 8 : Syndecan 2 (human) transmembrane domain (J 04621):

gtcctagcag ctgtcattgc tggtaggagtt attggctttc tctttgcaat ttttcttata  
ctgctgttgg tg

protein sequence:  
VLA AVIAGGVIGFLFAIFLILLV

reference:

ACCESSION J04621  
LOCUS HUMHSPGC 3414 bp mRNA PRI 08-NOV-1994  
DEFINITION Human heparan sulfate proteoglycan (HSPG) core protein, 3' end.  
ACCESSION J04621  
NID g184428  
KEYWORDS core protein; heparan sulfate proteoglycan.  
SOURCE Human fetal lung fibroblast, cDNA to mRNA, clone 48K5.  
ORGANISM Homo sapiens  
Eukaryotae; mitochondrial eukaryotes; Metazoa; Chordata;  
Vertebrata; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
REFERENCE 1 (bases 1 to 3414)  
AUTHORS Marynen, P., Zhang, J., Cassiman, J. J., Van den Berghe, H. and David, G.  
TITLE Partial primary structure of the 48- and 90-kilodalton core  
proteins of cell surface-associated heparan sulfate proteoglycans  
of lung fibroblasts. Prediction of an integral membrane domain and  
evidence for multiple distinct core proteins at the cell surface of  
human lung fibroblasts  
JOURNAL J. Biol. Chem. 264 (12), 7017-7024 (1989)

0914596-09095



## Fig. 9 : Synd-3 (N-syndecan) chicken Transmembrane domain

gtgttgatagctgtgattgtcggcgggtgtggtgggagccctctttgctgccttccttgtca  
tgctgctcatctac

### Reference:

ACCESSION M84910  
LOCUS CHKSNDPCPRO 1372 bp mRNA VRT 29-NOV-1995  
DEFINITION Chicken syndecan-3 proteoglycan mRNA, complete cds.  
ACCESSION M84910  
NID g1017461  
KEYWORDS syndecan-3 proteoglycan.  
SOURCE Gallus gallus 4-6 day and 10 day forelimb and whole embryo cDNA to mRNA.  
ORGANISM Gallus gallus  
Eukaryotae; mitochondrial eukaryotes; Metazoa; Chordata;  
Vertebrata; Archosauria; Aves; Neognathae; Galliformes;  
Phasianidae; Phasianinae; Gallus.  
REFERENCE 1 (bases 1 to 1372)  
AUTHORS Gould, S.E., Upholt, W.B. and Kosher, R.A.  
TITLE Syndecan 3: a member of the syndecan family of  
membrane-intercalated proteoglycans that is expressed in high  
amounts at the onset of chicken limb cartilage differentiation  
JOURNAL Proc. Natl. Acad. Sci. U.S.A. 89 (8), 3271-3275 (1992)  
MEDLINE 92228766  
REFERENCE 2 (bases 1 to 1372)  
AUTHORS Gould, S.E., Upholt, W.B. and Kosher, R.A.  
TITLE Characterization of chicken syndecan-3 as a heparan sulfate  
proteoglycan and its expression during embryogenesis  
JOURNAL Dev. Biol. 168 (2), 438-451 (1995)

0544516-090298

Figure 10 : Syndecan-4 transmembrane domain from rat: M81786

gtcttggc agctctgatt gtggcgggcg tagtgggcat cctcttcgcc gttttcctga  
tcctgctgct ggtgtac

Reference:

ACCESSION M81786  
LOCUS RATRYUDOCA 2452 bp mRNA ROD 16-JUL-1992  
DEFINITION Rattus norvegicus ryudocan mRNA, complete cds.  
ACCESSION M81786  
NID g206822  
KEYWORDS ryudocan.  
SOURCE Rattus norvegicus Epididymal fat pad cDNA to mRNA.  
ORGANISM Rattus norvegicus  
Eukaryotae; mitochondrial eukaryotes; Metazoa; Chordata;  
Vertebrata; Eutheria; Rodentia; Sciurognathi; Myomorpha; Muridae;  
Murinae; Rattus.  
REFERENCE 1 (bases 1 to 2452)  
AUTHORS Kojima,T., Shworak,N.W. and Rosenberg,R.D.  
TITLE Molecular cloning and expression of two distinct cDNA-encoding  
heparan sulfate proteoglycan core proteins from a rat endothelial  
cell line  
JOURNAL J. Biol. Chem. 267, 4870-4877 (1992)

00445916-090993

Fig. // : Glypican-1 (rat) GPI-Transmembrane Domain:

**gccgcc actcgccag agcctcacta cttctttctg  
ctcttcctgt tcaccttggc ccttgctgca gccaggccca ggtggcggtg actgcc**

protein sequence:

ATRPEPHYFLLFLFTLVLAARPRWR

Reference:

ACCESSION L34067

NID g506416

KEYWORDS glypican.

SOURCE Rattus norvegicus (strain New England Deconess Hospital) cDNA to mRNA.

ORGANISM Rattus norvegicus

Eukaryotae; mitochondrial eukaryotes; Metazoa; Chordata;

Vertebrata; Eutheria; Rodentia; Sciurognathi; Myomorpha; Muridae;

Murinae; Rattus.

REFERENCE 1 (bases 1 to 1737)

AUTHORS Litwack,E.D., Stipp,C.S., Kumbasar,A. and Lander,A.D.

TITLE Neuronal expression of glypican, a cell-surface glycosylphosphatidylinositol-anchored heparan sulfate proteoglycan, in the adult rat nervous system

JOURNAL J. Neurosci. 14, 3713-3724 (1994)

09145916-090298

Figure 12 : Perlecan (human) transmembrane domain #M85289

tgcgacactgctcatcccag  
ccatcagactgctgacgccggttctacctctgcgtggccaccagccctgcaggcactg  
cc

Reference:

LOCUS HUMHSPG2B 14327 bp mRNA PRI 08-NOV-1994  
DEFINITION Human heparan sulfate proteoglycan (HSPG2) mRNA, complete cds.  
ACCESSION M85289  
NID g184426  
KEYWORDS HSPG2 gene; heparan sulfate proteoglycan.  
SOURCE Homo sapiens skin; colon cDNA to mRNA.  
ORGANISM Homo sapiens  
Eukaryotae; mitochondrial eukaryotes; Metazoa; Chordata;  
Vertebrata; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
REFERENCE 1 (bases 1 to 14327)  
AUTHORS Dodge,G.R., Kovalszky,I., Chu,M.L., Hassell,J.R., McBride,O.W.,  
Yi,H.F. and Iozzo,R.V.  
TITLE Heparan sulfate proteoglycan of human colon: partial molecular  
cloning, cellular expression, and mapping of the gene (HSPG2) to  
the short arm of human chromosome 1  
JOURNAL Genomics 10 (3), 673-680 (1991)  
MEDLINE 91365376  
REFERENCE 2 (bases 1 to 14327)  
AUTHORS Murdoch,A.D., Dodge,G.R., Cohen,I., Tuan,R.S. and Iozzo,R.V.  
TITLE Primary structure of the human heparan sulfate proteoglycan from  
basement membrane (HSPG2/perlecan). A chimeric molecule with  
multiple domains homologous to the low density lipoprotein  
receptor, laminin, neural cell adhesion molecules, and epidermal  
growth factor  
JOURNAL J. Biol. Chem. 267 (12), 8544-8557 (1992)

09145916-090099

Figure 13 : Syndan-4 cytoplasmic domain from rat: M81786

**Cgc atgaagaaga aggatgaagg cagttacgac ttgggcaaga aacccatcta caaaaaagcc  
cccaccaacg agttctacgc atga**

Reference:

ACCESSION M81786  
LOCUS RATTRYUDOCA 2452 bp mRNA ROD 16-JUL-1992  
DEFINITION Rattus norvegicus ryudocan mRNA, complete cds.  
ACCESSION M81786  
NID g206822  
KEYWORDS ryudocan.  
SOURCE Rattus norvegicus Epididymal fat pad cDNA to mRNA.  
ORGANISM Rattus norvegicus  
Eukaryotae; mitochondrial eukaryotes; Metazoa; Chordata;  
Vertebrata; Eutheria; Rodentia; Sciurognathi; Myomorpha; Muridae;  
Murinae; Rattus.  
REFERENCE 1 (bases 1 to 2452)  
AUTHORS Kojima,T., Shworak,N.W. and Rosenberg,R.D.  
TITLE Molecular cloning and expression of two distinct cDNA-encoding  
heparan sulfate proteoglycan core proteins from a rat endothelial  
cell line  
JOURNAL J. Biol. Chem. 267, 4870-4877 (1992)

09445916-090298

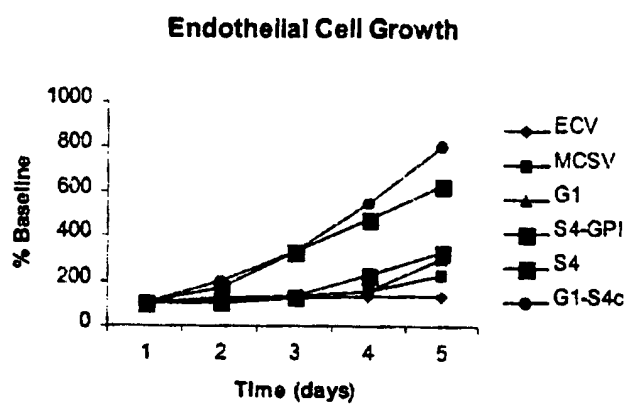


Fig. 14

Fig. 15 A



MSCV

Fig. 15 B



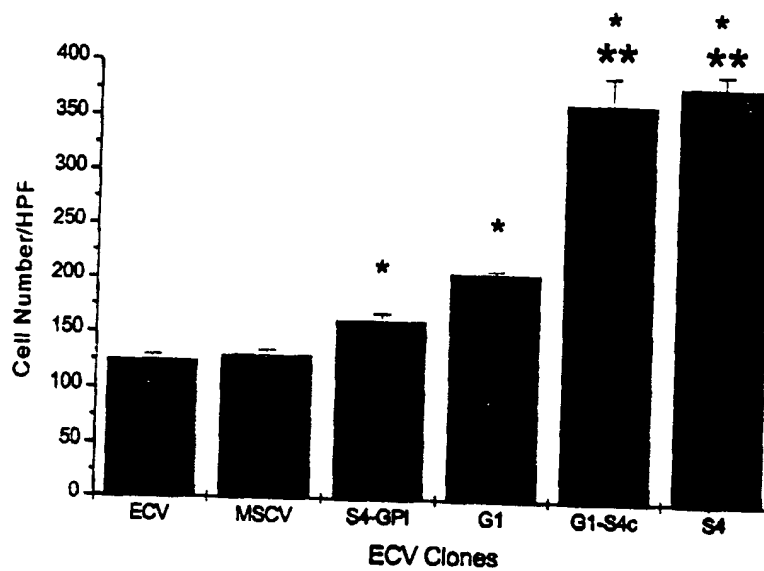
S4

Fig. 15 C



G<sub>1</sub>-S4c

Fig. 16



. Boyden chamber assays of migration towards  
bFGF (25 ng/ml;

\*  $p < 0.05$  vs. ECV

\*\*  $p < 0.05$  vs. S4-GPI



Fig. 17A

Fig. 17C

Fig. 17E

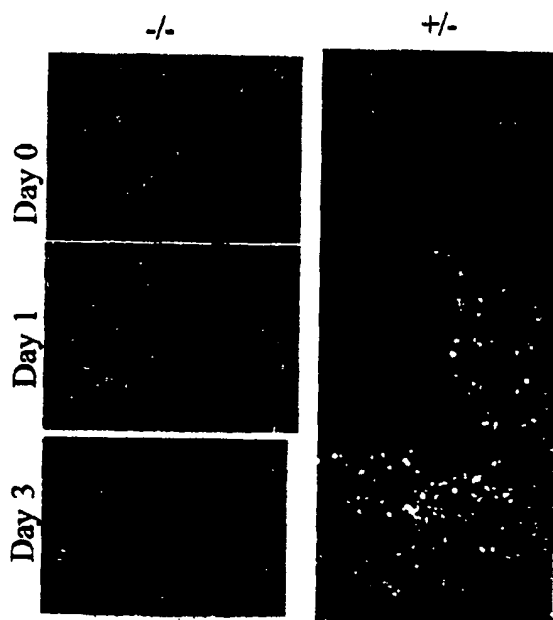


Fig. 17B

Fig. 17D

Fig. 17F

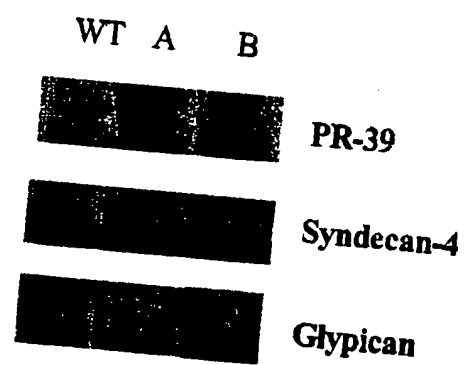


Fig. 18

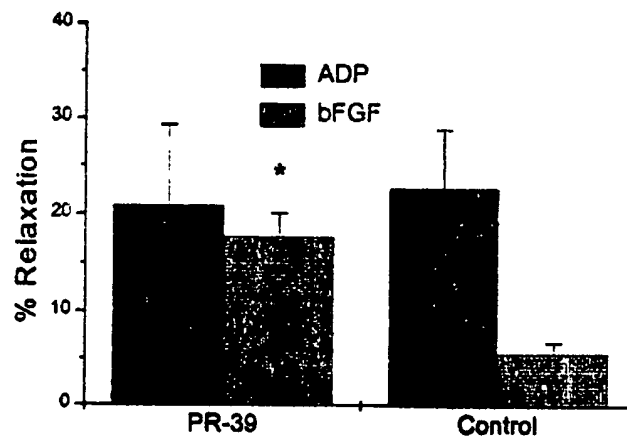


Fig. 19